Index of Claims

Rejected

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Non-Elected

10/613,749

Examiner

(Through numeral) Cancelled

N. M. Minnifield

Applicant(s)/Patent under Reexamination

KRIEG, ARTHUR M.

Art Unit

1645

**Appeal** 

|       | =            | L        | Allowed  |                  | ÷              |              | Re         | stri     | cted  |                                     |          |          | ı            | Inte     | rfe             | ren    | ce    |            | 0            |              | 0        | bje      | cte             | d           |                 |          |           |
|-------|--------------|----------|--|------------------|----------------|--------------|------------|----------|---|-------------------------------------|----------|----------|--------------|----------|-----------------|--------|-------|------------|--------------|--------------|----------|----------|-----------------|-------------|-----------------|----------|-----------|
| Claim | 1.           |          | Dat  | e                |                |              | Cla        | aim      | ,   |                                     | D        | ate      |              |          | $\neg$          |        | Cla   | aim        | Ī            |              |          |          | ate             | <del></del> |                 |          | $\neg$    |
| Final | 16           | -        |  |                  |                | della fil    | Final      | Original | 6/15/20                                       |                                     |          |          |              |          |                 | - 10   | Final | Original   | 650          | 4 1 1        |          |          |                 |             |                 |          |           |
| 1     | _24          | -        | +++  | ╁╌╁╌             | ╁╌             |              | -          | 51       | N   | +                                   | +        | +        | +            | ╅        | $\vdash$        |        |       | 101        | V            | <u> </u>     |          |          |                 |             |                 | $\dashv$ | $\exists$ |
| 2     |              | Ŀ        |  |                  |                |              |            | 52       | N   |                                     | $\Box$   | $\Box$   | $\perp$      | $\perp$  |                 | an u   |       | 102        | V            |              |          |          |                 |             |                 | $\Box$   | _         |
| 3     |              | _        |  | $\vdash \vdash$  | -              |              |            | 53       | N   | 1-1                                 | $\dashv$ | $\dashv$ | 4            | _        | Щ               | 1 2    |       | 103        | 1            | ┦            | $\vdash$ | -        |                 | 4           | $\vdash \vdash$ | $\dashv$ | $\dashv$  |
| 5     |              | F        | +  | ┼╌┼╌             | ╀              |              | <u> </u>   | 54<br>55 | <u>                                      </u> | +                                   | $\dashv$ | +        | +            |          | Н               | Дį.    |       | 104<br>105 | 1            | <b>-</b>     | Н        | Н        |                 | $\dashv$    | $\dashv$        | -        | $\dashv$  |
| 6     |              | ┝        | <del></del>                                      | ┼╌┼╌             | ╁              | +            |            | 56       | 7   | +                                   | $\dashv$ | +        | $^{+}$       | +        | Н               |        |       | 106        | 1            | -            | Н        | Н        |                 | $\neg$      | $\dashv$        | $\dashv$ | $\dashv$  |
| 1 7   |              | ┢        | -  | $\vdash$         | ╁╴             | + + 1 :      |            | 57       | N   | +-+                                 | 十        | +        | 7            |          | Н               |        |       | 107        | 1            | $\vdash$     | Н        |          |                 |             | $\Box$          | ヿ        | ⊣         |
| 8     |              | ľ        |  |                  | T              |              |            | 58       | N   | $\top$                              | $\dashv$ |          | T            |          |                 | 1, 1   |       | 108        |              |              |          |          |                 |             |                 |          |           |
| 9     | V            |          |  |                  |                |              |            | 59       | -   |                                     |          |          |              |          |                 | else f |       | 109        |              |              |          |          |                 |             |                 | $\Box$   |           |
| 10    |              | Ĺ        |  |                  | L              |              |            | 60       | -   | $\perp \!\!\!\!\perp \!\!\!\!\perp$ |          | $\perp$  | $\perp$      |          | Ш               |        |       | 110        | <u> </u>     | Ш            | Щ        | Щ        |                 |             | Щ               |          |           |
| 1     |              |          |  | _ _              | 1              |              | <u> </u>   | 61       | 1   | 44                                  | $\dashv$ | 4        | $\downarrow$ |          | $\sqcup$        |        |       | 111        | <u> </u>     | $\vdash$     | $\vdash$ | Н        | $\sqcup$        | 4           | <del>   </del>  | -        | $\dashv$  |
| 1:    |              | L        | ++-  | $\vdash$         | +              |              |            | 62<br>63 | -   |                                     | +        | +        | +            | +        | $\vdash \vdash$ | ()<br> | -     | 112<br>113 | $\vdash$     | -            | <u> </u> | $\vdash$ | $\dashv$        |             | $\dashv$        | $\dashv$ | $\dashv$  |
| 1;    |              | -        | +  | $\vdash$         | ╁              | +            | ⊢          | 64       | N   | +                                   | $\dashv$ | +        | $\dashv$     | _        | $\vdash\vdash$  |        |       | 114        | -            | ╁            | $\vdash$ | Н        | -               | $\dashv$    | $\vdash$        | $\dashv$ | $\dashv$  |
| 19    |              | ┝        | +++-   | +                | ╁              | H            | -          | 65       | 7   | +                                   | +        | ╁        | $\dashv$     |          | Н               |        |       | 115        | H            | H            | $\vdash$ | Н        | $\dashv$        | $\neg$      | $\vdash$        | 十        | ᅱ         |
| 10    |              | ┝        |  | $\vdash$         | ╁╌             |              | <b>-</b> - | 66       | N   | 11                                  | 十        | 十        | Ť            | $\dashv$ | H               |        |       | 116        | 一            | $\vdash$     | _        | Н        |                 |             |                 | 十        | ⊣         |
| 1     |              | Г        |  | $\vdash$         | $\dagger$      |              |            | 67       |   |                                     | 寸        | T        | T            |          | П               |        |       | 117        |              | $\Box$       | П        | П        |                 |             | П               | ヿ        | $\neg$    |
| 18    | B —          | Г        |  |                  |                |              |            | 68       |   |                                     |          |          |              |          |                 |        |       | 118        |              |              |          |          |                 |             |                 | $\Box$   |           |
| 19    |              |          |  |                  |                |              |            | 69       |   |                                     |          |          | $\Box$       |          |                 | - 1    |       | 119        | _            | $oxed{oxed}$ |          |          |                 |             |                 | $\Box$   | $\Box$    |
| 20    |              |          |  | $\perp \perp$    | $\perp$        | Ш.,          |            | 70       |   | $\perp$                             | _        | 4        | 4            |          | Щ               |        |       | 120        | ┡            | ╙            | _        | Ш        | _               | _           | $\square$       |          | _         |
| 2     |              | L        |  | <b></b>          | ↓_             | H            |            | 71       | N<br>N  | +                                   | 4        | 4        | 4            |          | Н               |        |       | 121        | ├            | ⊢            | $\vdash$ | Ш        |                 | _           | $\vdash$        | $\dashv$ | -         |
| 22    |              | 4        |  | -                | ┼              |              |            | 72       | <u> </u>                                      | +                                   | $\dashv$ |          | +            |          | Н               | 12 gr  |       | 122<br>123 | ⊢            | ┼            | $\vdash$ | Н        |                 | $\dashv$    | $\vdash$        | $\dashv$ | $\dashv$  |
| 2:    |              | H        |  | ╂┷┼              | ╁              | +            | -          | 73<br>74 | N   |                                     | $\dashv$ | +        | +            |          | Н               | 5 A 1  |       | 124        | $\vdash$     | $\vdash$     | $\vdash$ |          |                 | $\dashv$    | $\vdash$        | $\dashv$ | $\dashv$  |
| 2     |              | -        | ++-  | ╁╌╁╴             | +              | +            | _          | 75       |   | +                                   | $\dashv$ | $\dashv$ | +            | +        | $\vdash$        | ±1     |       | 125        | ╁╌           | $\vdash$     | $\vdash$ | Н        |                 |             | $\Box$          | 十        | $\dashv$  |
| 20    |              | H        | ++++   | <del>    -</del> | ${}^{\dagger}$ |              |            | 76       | -   | 11                                  | 十        | +        | 1            | -        | Н               |        |       | 126        | $\vdash$     |              | П        | П        |                 |             |                 | 寸        | ╗         |
| 2     | 7            |          |  | 1                | t              |              |            | 77       | N,  | 17                                  | 寸        |          | T            | _        | П               |        |       | 127        |              |              |          |          |                 |             |                 |          |           |
| 28    | BV           |          |  |                  |                |              |            | 78       | M   |                                     |          |          |              |          |                 |        |       | 128        |              |              |          |          |                 |             |                 | $\Box$   |           |
| 29    |              |          |  |                  |                |              |            | 79       | N,  | $\perp \perp$                       |          |          |              |          | Ш               |        |       | 129        | $oxed{oxed}$ | ╙            | Ш        |          |                 |             | Ш               | _        | _         |
| 30    |              | Ł        | 1  | $\bot\bot$       | 丄              | L.           |            | 80       | <u>M</u> ,                                    | $\bot$                              | _        | _        | 4            | $\perp$  | Ш               | 47.7   |       | 130        | _            | <u> </u>     | <u> </u> | _        |                 | _           | $\vdash$        | -        | 4         |
| 3     | 1 0          | <u>-</u> | +  |                  | ┼              | Щ.           |            | 81       | N   | +                                   | $\dashv$ |          | 4            |          | Н               | 14     |       | 131<br>132 |              | $\vdash$     | $\vdash$ | -        |                 | $\dashv$    | $\vdash\vdash$  | -        | $\dashv$  |
| 33    | 2 2          | L        |  | $\vdash\vdash$   | +              |              |            | 82<br>83 |   | +                                   | +        | ╁        | $\dashv$     | +        | $\vdash$        | : 1    |       | 133        | ├            | $\vdash$     | ⊢        | H        | -               |             |                 | -        | $\dashv$  |
| 34    | 9            | ┝        | ++-+   | ┼┼               | +              |              |            | 84       | W   | +                                   | +        | +        | +            | -        | Н               |        |       | 134        | H            | H            | -        |          |                 | $\neg$      | $\vdash$        | $\dashv$ | ᅱ         |
| 3:    |              | H        | <del></del>                                      |                  | T              |              | <b>—</b>   | 85       | M   | 111                                 | 7        | 十        | 7            | _        | П               |        | _     | 135        |              | $\Box$       | Т        | T        | $\Box$          |             | $\sqcap$        | ╅        | ヿ         |
| 30    |              | Η        |  |                  | †              |              |            | 86       |   | $\top$                              |          | 7        |              |          |                 |        |       | 136        |              |              | -        |          |                 |             |                 |          |           |
| 3     |              |          |  |                  | 1              |              |            | 87       | -   |                                     | $\Box$   |          |              |          |                 | . f.   |       | 137        |              |              |          |          |                 |             |                 |          |           |
| 38    | 8            |          |  |                  | $\perp$        |              |            | 88       | N.  | $\perp$                             |          | $\perp$  |              |          |                 | 1      |       | 138        | _            | Ш            | <u> </u> |          | Ш               |             |                 |          | _         |
| 39    |              | L        | +++  | ₩.               | 1              | Ш.           | <u> </u>   | 89       | N   | 44                                  |          | _        | 4            | $\dashv$ | Ш               |        |       | 139        | -            | $\vdash$     | $\vdash$ |          | $\vdash \vdash$ |             | $\vdash \vdash$ | -        | $\dashv$  |
| 40    | 0 -          | L        |  | <b>├-├-</b>      | +              | 1            | -          | 90<br>91 | N   | ┿┩                                  | $\dashv$ | +        | -            |          | $\vdash$        |        |       | 140<br>141 | $\vdash$     | }            | $\vdash$ |          | $\vdash$        | _           | $\vdash \dashv$ | $\dashv$ | $\dashv$  |
| 4:    |              | $\vdash$ | ++-  | ++               | +              | +-           |            | 91       |   | ╅┩                                  | $\dashv$ | $\dashv$ | +            |          | $\vdash$        |        |       | 141        | $\vdash$     | $\vdash$     | -        | $\vdash$ | Н               | -           | ┝╌┤             | $\dashv$ | $\dashv$  |
| 4:    |              | $\vdash$ | ++-  | +                | +              | $H^{\prime}$ | $\vdash$   | 93       |   | +-                                  | $\dashv$ |          | $\dashv$     | $\dashv$ | Н               | 1      |       | 143        | $\vdash$     | $\vdash$     | H        |          | H               | -           | $\vdash \vdash$ | $\dashv$ | $\dashv$  |
| 4     |              | ۲        | <del>                                     </del> | 1-1-             | t              |              |            | 94       |   | +-                                  | $\dashv$ | $\dashv$ | $\dashv$     | $\top$   | Н               |        |       | 144        | T            | $\vdash$     | Г        | $\vdash$ | Н               |             | $\sqcap$        | $\dashv$ | $\dashv$  |
| 4:    |              | T        | 1-1-1  |                  | T              |              |            | 95       | <b>7</b> .                                    | 77                                  | _        | 十        | 7            | $\neg$   | П               |        |       | 145        |              | $\Box$       |          |          |                 |             |                 | $\Box$   | $\Box$    |
| 40    | 6 N          |          |  |                  | Ι              |              |            | 96       | N   |                                     |          |          |              |          |                 | ٠.     |       | 146        |              |              |          |          |                 |             |                 |          |           |
| 4     | 7 N          |          |  |                  |                |              |            | 97       |   | $\Box$                              | $\Box$   | $\Box$   | $\Box$       |          |                 |        |       | 147        |              | oxdot        |          |          |                 |             | Ш               |          | _]        |
| 48    | BINI         | Ĺ        |  | $\perp \Gamma$   | Ļ.             | $\square$    |            | 98       | N   |                                     | _        | $\perp$  | 4            | _ _      | Ш               |        |       | 148        | <u> </u>     | $\vdash$     | $\vdash$ |          |                 |             | Ш               |          | _         |
| 49    | 9 <b>/</b> / | L        |  | <b>├-</b> ├-     | $\perp$        | ₩.           | <u> </u>   | 99       | <del>   </del>                                | $\Box$                              | _        | $\perp$  | 4            | - -      | Ш               |        |       | 149        | ⊢            | ₩            | <u> </u> | _        | Ш               | Щ           | ├┤              | $\dashv$ | $\dashv$  |
| 50    | O N          | L        |  |                  | L              |              | <u>L</u>   | 100      | V   | ᆚᆚ                                  | ᆚ        |          |              |          | Ш               |        | L     | 150        |              | 1            | L_       |          | لـــا           |             | Ш               | $\perp$  |           |